PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 01640453TA	FOR FURTHER ACTION		form PCT/ISA/220 e applicable, item 5 below.	
International application No. PCT/US05/06789	International filing date (day, 03 March 2005 (03.03.2005)		(Earliest) Priority Date (day/month/year) 05 March 2004 (05.03.2004)	
Applicant VIRGINIA TECH INTELLECTUAL PROPERTIES, INC.				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. II. Certain claims were found unsearchable (See Box No. III) 4. With regard to the title, With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:				
5. With regard to the abstract, the text is approved as subject to the text of		urthia Authoris	vas it annears in Roy No. IV. The annlicant	
may, within one month from	n the date of mailing of this int	ernational searc	as it appears in Box No. IV. The applicant the report, submit comments to this Authority.	
6. With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. Figure 3				
as suggested by the applicant.				
as selected by this Authority, because the applicant failed to suggest a figure.				
as selected by this Authority, because this figure better characterizes the invention.				
h none of the figures is to be	nublished with the abstract			

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/06789

	PC1/US05/06/89			
Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)				
The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).				
A method and apparatus are disclosed for separating the functionality of middleware (320) in a device with embedded resources (341, 342) so that data transfer between embedded resources used by an object (330) resident in a general purpose processor (310) of the device takes place directly, thereby minimizing bandwidth overhead at the general purpose processor. The control interface (371, 372) for an embedded resource resides in the general purpose processor and uses the device driver of the embedded resource, whereas the data interface (381, 382) is outside the general purpose processor and provides direct communication with a switch matrix (360) serving each embedded resource.				